

1

Abstract of the Disclosure

2 The invention provides a method and process for transmitting
3 data without using additional CPU cycles and memory accesses to calculate
4 checksums. The transmitting device obtains data from internal or external
5 data source and stores data in memory. Data is then divided into zones and
6 checksums are calculated for each zone. Checksums are recorded on a
7 checksum array. A data pointer containing an address for data stored in
8 memory, a description of the data and address for the checksum array is
9 transferred through data transfer protocol to network and transmission
10 layers. Network and transmission layers are then able to access and send
11 data without having to either copy data through data transfer protocol to
12 network and transfer layers or read all of the data to calculate the
13 checksums. This method and process uses fewer CPU cycles and memory
14 accesses to transmit data and is, therefore, more efficient than the prior art.

15